

**Cc:** Willard Potter[otto@demaximis.com]  
**To:** Naranjo, Eugenia[Naranjo.Eugenia@epa.gov]; Vaughn, Stephanie[Vaughn.Stephania@epa.gov]  
**From:** Robert Law  
**Sent:** Thur 5/23/2013 3:23:59 PM  
**Subject:** RE: Physico-chemical water column data for Newark Bay

See below....

Did you mean the thalweg rather than the channe lin the LPR? This is stated for all 3 types of events: Routine, Low Flow and High Flow

■ In summary, the proposed CWCM small volume program includes the following three elements:¶

- → **Routine Events**--Water samples will be collected at 17 locations in the LPRSA (including the LPRSA tributaries), above Dundee Dam, Newark Bay, Hackensack River, Arthur Kill, and Kill van Kull for laboratory analysis. A total of five hundred forty (540) samples will be collected through five Routine Events spread over winter (one event), spring (two events), and summer (two events). At least one Routine Event will occur during a spring tide, and one during a neap tide. The sampling events will be conducted over a variety of flow conditions, from 400 to 3,000 cubic feet per second (cfs) at Dundee Dam. The locations of samples collected during flows of < 1,000 cfs will be determined based on flow and tide stage (see Exhibit 1). Where commercial boat traffic does not prohibit anchoring, samples will be collected from the deepest part of the river (thalweg). The thalweg will be determined in the field by measuring and recording the depths across the river at each location, and identifying the deepest point. Samples will be collected at two depths (3 feet (ft) below surface and 3 ft from the bottom) for the stations in the LPR (River Mile [RM] 0--17.4) and the NBSA, and at mid-depth for the LPRSA.

>>> "Naranjo, Eugenia" <Naranjo.Eugenia@epa.gov> 5/23/2013 11:09 AM >>>

And I have another question, are all the Passaic stations located in the channel?

**From:** Vaughn, Stephanie  
**Sent:** Thursday, May 23, 2013 10:58 AM  
**To:** Robert Law; Naranjo, Eugenia  
**Cc:** Willard Potter  
**Subject:** RE: Physico-chemical water column data for Newark Bay

A table correlating the locations on the figure to the station id's used in the spreadsheets would help..I don't see one on Sharepoint.

**From:** Robert Law [<mailto:rlaw@demaximis.com>]  
**Sent:** Thursday, May 23, 2013 10:50 AM  
**To:** Naranjo, Eugenia; Vaughn, Stephanie  
**Cc:** Willard Potter  
**Subject:** RE: Physico-chemical water column data for Newark Bay

You mean this? I have attached Figure 1 from Appendix of the SV-CWCM QAPP. Let me know if you are looking for something else.

Robert Law, Ph.D.  
de maximis, inc.  
[rlaw@demaximis.com](mailto:rlaw@demaximis.com)  
Voice: 908-735-9315  
Fax: 908-735-2132

>>> "Vaughn, Stephanie" <[Vaughn.Stephanie@epa.gov](mailto:Vaughn.Stephanie@epa.gov)> 5/23/2013 9:00 AM >>>

Hi Rob - could you send a figure showing the station locations?

Thanks

**From:** Robert Law [<mailto:rlaw@demaximis.com>]  
**Sent:** Tuesday, May 21, 2013 10:54 AM  
**To:** Naranjo, Eugenia  
**Cc:** Vaughn, Stephanie  
**Subject:** Re: Physico-chemical water column data for Newark Bay

AECOM will post the data to the LPR Sharepoint; they are large spreadsheets

Robert Law, Ph.D.  
de maximis, inc.  
[rlaw@demaximis.com](mailto:rlaw@demaximis.com)  
Voice: 908-735-9315

Fax: 908-735-2132

>>> "Naranjo, Eugenia" <[Naranjo.Eugenia@epa.gov](mailto:Naranjo.Eugenia@epa.gov)> 5/21/2013 10:18 AM >>>

Rob,

We have not received the physical measurements data taken during the svCWCM sampling events (turbidity, pH, etc). Can you provide those -maybe in a spreadsheet-?

Thanks,

eugenia